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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
08/690,747		08/01/1996	HISASHI OHTANI	07977/052001	1369
20985	7590	07/08/2003			
FISH & RI		,	EXAMINER		
4350 LA JOLLA VILLAGE DRIVE SUITE 500				KUNEMUND	ROBERT M
SAN DIEG	SAN DIEGO, CA 92122			ART UNIT	PAPER NUMBER
				1765	31
				DATE MAILED: 07/08/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

PTO-326 (Re		ction Summary	Part of Paper No.	30				
2) 🔲 Notic	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449) Paper No(s)	5) 🔲 1	nterview Summary (PTO-413) Paper N lotice of Informal Patent Application (P ther:					
Attachmen	t(s)							
I .) \prod The translation of the foreign language pro Acknowledgment is made of a claim for domest	·						
,	Acknowledgment is made of a claim for domesti	•	•	ат аррпсатіоп).				
	See the attached detailed Office action for a list	•		al application				
	application from the International Bu	reau (PCT Rule 17	.2(a)).	Jugo				
	3. Copies of the certified copies of the prior			al Stage				
	 Certified copies of the priority document Certified copies of the priority document 							
a)[s have been rocciv	ed					
,	Acknowledgment is made of a claim for foreign All b) Some * c) None of:	r priority unider 35 t	7.3.0. g 113(a)-(u) 01 (i).					
	under 35 U.S.C. §§ 119 and 120	a priority upday 25 l	I C C & 110(a) (d) ar (f)					
,	The oath or declaration is objected to by the Ex	anne.						
12\□	If approved, corrected drawings are required in rep The path or declaration is objected to by the Ex		П.					
11) 📙	The proposed drawing correction filed on			ner.				
4 4 \ \ \ \ -	Applicant may not request that any objection to the	- ,	-					
10) 🔲 ¯	The drawing(s) filed on is/are: a)☐ accept							
	The specification is objected to by the Examine							
_	on Papers							
,	Claim(s) are subject to restriction and/o	r election requirem	ent.					
7)	Claim(s) is/are objected to.							
6)	Claim(s) 21,25 and 37-96 is/are rejected.							
5)	Claim(s) is/are allowed.							
	4a) Of the above claim(s) is/are withdraw	wn from considerat	on.					
4) 🗔	Claim(s) 21, 25, and 37 to 96 is/are pending in	n the application.						
Dispositi	on of Claims	∟⊼ parte Quayle, T	900 O.D. 11, 400 O.G. 210.					
3)	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
2a)⊡	This action is FINAL . 2b) ☐ Th	is action is non-fina	I.					
1)[Responsive to communication(s) filed on 28 C	October 2002						
- Exter after - If the - If NO - Failur - Any re	MAILING DATE OF THIS COMMUNICATION. Issions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, eply received by the Office later than three months after the mailing dipatent term adjustment. See 37 CFR 1.704(b).	y within the statutory minim vill apply and will expire SIX , cause the application to be	um of thirty (30) days will be considered time (6) MONTHS from the mailing date of this ecome ABANDONED (35 U.S.C. § 133).	ely. communication.				
	ORTENED STATUTORY PERIOD FOR REPLY	Y IS SET TO EXPIR	RE <u>3</u> MONTH(S) FROM					
Period fo		lears on the cover s	der with the correspondence a	uu. 000				
	The MAILING DATE of this communication app	Robert M Kunemur		ddross				
	Office Action Summary	Examiner	Art Unit					
		08/690,747	OHTANI ET AL.					
		Application No.	Applicant(s)					

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103© and potential 35 U.S.C. 102(f) or (g) prior art under 35 U.S.C. 103(a).

Claims 21, 25 and 37 to 96 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nakajima et al. in view of Yamada (Jp 5-109,737).

The Nakajima et al reference teaches a method of silicon crystal growth. On a substrate, a catalyst for growth is applied. Then an amorphous layer is deposited onto the metal, the resulting structure is then annealed in order to crystallize the silicon. The silicon can be patterned to form island. The sole difference between the instant claims and the prior art is the etching and use of a gettering agent. However, the Yamada reference teaches ion implanting phosphorus or argon ions in to an amorphous silicon and then crystallization of the silicon. The implanted ions act as getters and cause metal to move to the gettering areas and the gettering areas are removed, note

entire reference. It would have been obvious to one of ordinary skill in the art to modify the Nakajima et al process by the teachings of the Yamada reference to etch and getter in order to remove the metal catalyst which lower the output of the device formed on such layers.

Response to Applicant's Arguments

Applicant's arguments filed October 28, 2002 have been fully considered but they are not persuasive.

Applicants' argument concerning the translation of the priority document is noted.

However, the translation does not support or teach the entirely claimed invention. There is no teaching to have the process done on any other material then silicon in the translation. The instant claims include other semiconducting materials. Further, some of the instant claims are limited solely to argon implanting. This is not recited in the translation. Thus, the translation does not fully teach the instant claims and thus does not overcome the rejection over the prior art of record.

The double patenting rejection has been overcome and is withdrawn by the examiner.

The rejection over the Yamada et al reference is maintained for the reasons of record as the reference does teach ion implanting a gettering agent and removal of harmful materials to device formations.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE

MONTHS from the mailing date of this action. In the event a first reply is filed within TWO

MONTHS of the mailing date of this final action and the advisory action is not mailed until after

the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Robert Kunemund whose telephone number is (703) 308-1091. The examiner can normally be reached on Monday through Friday from 7:00 to 3:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ben Utech can be reached on (703) 308-3324. The fax phone number for this Group is (703) 305-3599.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-0661.

RMK

May 30, 2003

ROBERT KUNEMUND